84254

S/076/60/034/009/019/022 B015/B056

24.7700 AUTHORS:

Sotnikov, V. S. and Belanovskiy, A. S.

TITLE:

Ion Adsorption of Some Metals During the Etching and the

Washing of Silicon

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 9,

pp. 2110-2114

TEXT: The electrical properties and the stability of crystalline semiconductor diodes and triodes essentially depends on the surface of the
semiconductor. V. I. Lyashenko and I. I. Stepko (Ref. 1) investigated
the adsorption of some substances, as well as their influence upon the
surface charge and conductivity of semiconductors. As the hydrofluoric
and nitric acids, the lyes, and also the rinsing water used for silicon
etching may contain admixtures such as iron, copper, and other heavy
metals in quantities from 1.10-5 to 1.10-3%, the adsorption of Cu, Ag,
au, In, Sb, P, Fe, Zn, Rb, and Na on the surface of the silicon was
investigated with the aid of the corresponding radioisotopes. As samples,
p-type silicon foils were used, which were etched in the etching solutions

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Ion Adsorption of Some Metals Buring the Etching and the Washing of Silicon

S/076/60/034/009/019/022 B015/B056

considerably reduces the number of elements adsorbed on the silicon surface (Table 4), and that in this way the semiconductor surfaces may be purified. There are 2 figures, 4 tables, and 6 referencess 2 Soviet and 4 US.

SUBMITTED:

January 15, 1959

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Card 3/3

S/076/61/035/003/003/023 B121/B203

Adsorption of ...

germanium metal or germanium monoxide formed besides ${\rm GeO}_2$ in the etching of the germanium surface with ${\rm H_2O}_2$ acts as electron source on the germanium surface. The derivatives of divalent germanium are strong reducing agents, especially in the hydrated form. Hydrated germanium monoxide reduces the metals from the solution with simultaneous conversion to germanium dioxide according to the equation:

 $GeO + H₂O + Cu⁺⁺ \longrightarrow GeO₂ + 2H⁺ + Cu$ (3)

The separation of metals on the germanium surface was also microphotographically examined under an electron microscope. At a metal concentration in the solution of 10⁻⁵-10⁻²%, adsorption attains a value of 10¹⁶-10¹⁸ at/cm² of the germanium surface. There are 5 figures, 1 table, and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The three references to Englishlanguage publications read as follows: E. Clark, Phys. Rev., 91, 765, 1953; J. Law, J. Phys. Chem., 59, 67, 1955; S. Eriksen, H. Statz, J. Appl. Phys., 28, 1, 1957.

SUBMITTED: April 12, 1959

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001652530012-6"

X

21981 \$/020/61/137/005/025/026 B103/B208

Adsorption of ions of some metals ...

publications. The authors used in their experiments polished laminae, 3 x 3 x 0.25 mm, from germanium and silicon of the n- and p-type. They were oriented in the plane 111, and had a resistivity of 15 Ohm om. The following etching reagents were used: 30% H202 and 10% KOH solutions, and and HNO3(60%) in a ratio of 1: 4, in which radioa mixture of HF (42%) active indicators were introduced in the form of nitrates and chloric salts. The specific activity of the solutions in the individual experiments ranged from 0.1 to 5 m curies/ml. The activity of the etching reagent was first determined 0.01 ml of it were placed into a square cavity $(3 \times 3 \text{ mm})$ of the paraffin layer on a little aluminum dish, and the activity measured considering the autoabsorption of the B-radiation in the liquid. In the following the activity of one side of the sample (the other side was polished) was determined at equal dimensions. Ge and Si were etched in an aliquot of the etching reagent for 3.0 min at room temperature in a HF-NHO, mixture, and by heating in H,0, and in KOH. The rest of the radioactive corrosive was rinsed from the surface of the samples with ethanol, and the activity of the samples was measured after drying on filter paper. The results for Ge are summarized in Table 1. They indicate that at the Card 2/8

21981 \$/020/61/137/005/025/026 B103/B208

Adsorption of ions of some metals ...

organic complex formers are most suitable for this purpose, since their traces may be washed off by high-purity organic solvents (CCl₄, chloroform, benzene, and others). The use of water and, as a result, an additional contamination by adsorption could thus be avoided. Treatment of pn-junctions of Si with acetonitrile reduced the inverse current in the collector to 1/2 - 1/4, and increased the stability of the device. There are 3 figures and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The 3 most recent references to English language publications read as follows: J.T. Law (Ref. 1: J. Phys. Chem., 59, 1, 67, 1955), J.T. Law, P.S. Meigs (Ref. 2: App. Phys., 26, 10, 1265, 1955), E.Clarke (Ref. 4: Phys.Rev., 95, 1, 284, 1954).

PRESENTED:

September 9, 1960 by A.N. Frumkin, Academician

SUBMITTED:

September 20, 1960

Card 4/8

SOTNIKOV, V.S.; BELANOVSKIY, A.S.; NIKISHOVA, F.B.

Adsorption of ions of certain metals from water during silicon washing. Part 4. Radiokhimiis 4 no.6:725-731 '62.

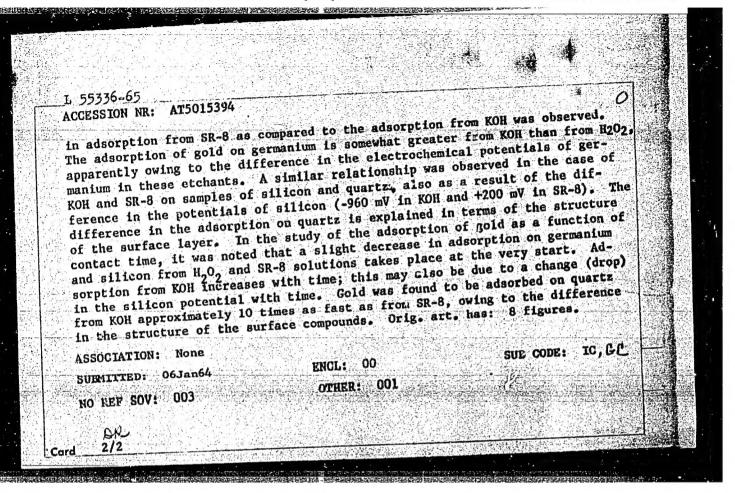
(Metals) (Silicon) (Adsorption)

(Metals) (Silicon)

EWP(e)/EWT(m)/EWP(1)/T/EWP(t)/EWP(b) IJP(c) GS/WH UR/0000/65/000/000/0149/0154 ACCESSION NR: AT5015393 541.133:54-128.4 :546.289+546.28-121+533.62 AUTHOR: Sotnikov, V. S.: Belanovskiy, A. S. TITLE: Adsorption of gold from aqueous solutions on germanium, silicon, and quartz during their washing SOURCE: AN SSSR, Otdeleniye obshchey 1 tekhnicheskoy khimii. Soosazhdeniye i adsorbtsiya radioaktivnykh elementov (Coprecipitation and adsorption of radioactive elements). Moscow, Izd-vo Nauka, 1965, 149-154 TOPIC TAGS: gold adsorption, germanium washing, silicon washing, quartz washing, Freundlich equation, chemical etching ABSTRACT: A study of the adsorption of gold on germanium, silicon, and quartz from aqueous solutions showed that it increases with the time of contact between the samples and the solution, is proportional to the Au content in solution at low concentrations (10-7 - 10-7%), and obeys the Freundlich equation (n = kcm). The desorption of gold in water at room temperature and at the boiling point is only partial, indicating that gold is strongly bound to the surface of Ge. Si. and quartz. Gold separates in the elemental state on germanium and is adsorbed primarily in the ionic state on silicon and quartz; in the case of the latter two ads Card 1/2

orbents, the mechanism may involving into the structure of the hydrinitial adsorption of gold on silinhat treatment with the etchant Surface on quartz than on silicons of SiO on the surface of quartz a crystalline SiO on silicon; a sinof Ag ⁺ , In ³⁺ , and SO ₄ on quartz	Icon and quartz are selected for the selection of the selection of the selection and selection are selected to a less adsorbs gold to a less	s. HNO ₃) produces a rougher at the amorphous structure er degree than does the charved in the adsorption	
ASSOCIATION: None SUBMITTED: 050ct63 NO REF SOV: 005	ENCL: 00 OTHER: 003	SUB CODE: IC, GC	
OP- Cord 2/2			

IJP(c) JD/ EWP(e)/EWT(m)/EWP(1)/T/EWP(t)/EWP(b) Pa-4 JG/GS/WH UR/0000/65/000/000/0154/0158 ACCESSION NRI AT5015394 541.183.5:54-128.4:54-145.2:621.79.025:546.289+ 546.28+666.192 Pit AUTHOR: Sotnikov, V. S.; Belanovskiy, A. S. TITLE: Adsorption of gold from hydrogen peroxide, KOH, and \$8-8 during chemical etching of germanium, silicon, and quartz N SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Soosazhdeniye i adsorbtsiya radioaktivnykh elementov (Coprecipitation and adsorption of radioactive elements). Moscow, Izd-vo Nauka, 1965, 154-158 TOPIC TAGS: gold adsorption, germanium etching, silicon etching, quartz etching, chemical etching, hydrofluoric scid, nitric scid, potassium hydroxide, hydrogen peroxide ABSTRACT: The adsorption of gold was studied as a function of the gold concentration in the solution and of the time of contact between the samples and the solution. In the case of H₂O₂ and KOH on germanium and KOH and SR-8 (1 pt. HF to 4 pts. HNO₃) on silicon, the adsorption of gold increases in proportion to its content at concentrations from 10⁻⁶ to 10⁻⁷. On quartz, a slight increase Card 1/2



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CCESSION NR: A	5017459	UR/0020/65/162/005/Y	105/1108	3
UTHOR: Sotniko	, V. S.; Belanovskiy,	<u>A. 8.</u>		
TTIR: Adsorpti	on of the ions of cert	ain metals from elect	rolytes during etcl	iing
OURCE: AN SSSR	Doklady, v. 162, no.	5, 1965, 1105-1108		
COPIC TAGS: ger	manium, silicon, quart	z, ion adsorption, e		
ions from the fo KOH on the surfa adsorption was s	rticle discusses the a llowing etchants: CP ce of Ge, Si, and quar tudied as a function of of contact between the	tz, and 30% H ₂ O ₂ on of the content of the	the surface of Ge. se ions in the solu utions. The adsorp	The tions tion
isotherms obtain constants of the	of contact between the ed obey the Freundlich Freundlich equations type of solution in what so fragnitude greater	are tabulated. The	degree of adsorptio	0

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i is present in the manded, the adsorption (the value corresponding	to a monolayer (about	t 1013 atoms/ cm²).	he adsorption	
he value corresponding hat the conduction type	e (n or p) of Ge and	figures and 2 table	86.	
hat the conduction type f the elements studied	. Orig. art. nas. 2			
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L 39035-66 EUP(e)/FF(m)/T/EUF(t)/ETT IJF(c) WH/DS/JD ACC NR: AP6022875 SOURCE CODE: UR/0186/66/008/002/0171/0182

AUTHOR: Sotnikov, V. S.; Belanovskiy, A. S.

ORG: none

TITLE: On the adsorption of ions of certain metals from electrolytes on the surface of germanium, silicon, and quartz 15

SOURCE: Radiokhimiya, v. 8, no. 2, 1966, 171-182

TOPIC TAGS: germanium, silicon, quartz, adsorption, etched crystal, copper, silver, gold, indium, antimony, zinc

ABSTRACT: The paper offers data on the adsorption of copper, silver, gold, indium, antimony, and zinc ions from the chemical etchants CP (a 1:4 mixture of 49% HF and 65% HNO₃) and 20% KOH on the surface of germanium, silicon, and quartz, and also from 30% H₂O₂ on the surface of germanium, as a function of the content of these metals in the solution and of the etching time. The temperature was 20°C for CP, 107°C (boiling point) for KOH, and 104°C (boiling point) for H₂O₂. The adsorption on quartz was studied in order to elucidate the mechanism of adsorption on silicon, whose surface is usually coated with a thin film of SiO₂, but the results are also independently significant in view of the wide use of quartz apparatus. It is shown that at a content of the above impurities from 10-5 to 10-1% in the etchants, the adsorption values

Card 1/2

UDC: 541.183.5:54-128.4

ACC NR: AF6022875

range from 1011 to 1016 atoms/cm², and that in the indicated systems, these values obey Freundlich's rule and are independent of the type of conduction in germanium and silicon. A mechanism of adsorption of ions from the electrolytes on the surface of germanium, silicon, and quartz is proposed. Orig. art. has: 11 figures.

SUB CODE: 07/ SUEM DATE: 30Dec64/ ORIG REF: 011/ OTH REF: 008

JD/JG IJP(c) EWI(h)/EWP(t)/ETI T. 05206-67 UR/0075/66/021/006/0754/0757 ACC NR: AP7000758 SOURCE CODE: Sotnikov, V. S. Korolev, N. V. Shumova, V. V. and Forozova, M. N. AUTHOR: ORG: none TITLE: Use of an emission microspectral method in the analysis of alloys for semiconductor devices SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 6, 1966, 754-757 TOPIC TAGS: emission spectrum, indium alloy, gallium alloy, gold alloy ABSTRACT: A microspectral method for the analysis of the In - Au - Ga and other alloys in specimens weighing less than 0.5 mg is examined. Alloy specimens in tablets 50X150 microns in size were placed on a polished surface of a glass bar, and then the specimens were covered with a copper plate about 1 mm thick which was tapped lightly with a hammer so that the specimens were secured to the surface of the copper plate. Then tablets were secured to the surface layer of the plate. Fellets of standard alloys were similarly secured to a copper plate, and a microspectral analysis was made. Copper wire 0.6 mm in diameter with ends cut at a 130° angle served as the electrode. The distance between one of the electrodes from the surface of the specimen was 1 mm; the second electrode was connected to the copper plate. Orig. art. has: 2 figures and 1 table. [JPRS: 37,177] SUB CODE: 11,20/ SUBM DATE: 02Jun65 / CRIG REF: CC2

Cord 1 1 ga

0923 543 42

ACC NR: AP7007204

SOURCE CODE: UR/0186/66/008/006/0617/0621

AUTHOR:

Sotnikov, V. S.; Belanovskiy, A. S.; Trakhtenberg, A. D.

ORG: none

TITIE: On the adsorption of metal ions from $\rm H_2O_2$ and KOH on the surface of electron-hole germanium and silicon junctions

SOURCE: Radiokhimiya, v. 8, no. 6, 1966, 617-621

TOPIC TAGS: adsorption, hydrogen peroxide, potassium hydroxide, pn junction

ABSTRACT: The adsorption of Cu, Ag, Au and In ions from H2O, H2O2 and KOH on parts making up a germanium p-n-p junction (TM-5) and silicon p-n-p (P104-106) and n-p-n (P 101-103) junctions was studied. It is shown that a considerable contamination of the solutions with elements constituting the junction takes place during etching (the amount of impurities in the solutions increases by 2 to 3 orders of magnitude). Thus, adsorption on the junctions is very important, since in contrast to germanium and silicon crystals, etching of the junctions occurs in a solution with a high impurity content. Cu and In impurities, adsorbed by the surface of junctions of types P101-103 and TM-5, cause a considerable increase of Ico (zero collector current). The various distributions of the adsorbed impurities on different parts of junctions of various types were studied by means of autoradiographic photographs. Orig. art. has: 3 tables.

SUB CODE: 07/ SUBM DATE: 21Jun65/ ORIG REF: 004/ OTH REF: 003

ACC NR: AP7007205

SOURCE CODE: UR/0186/66/008/006/0691/0692

AUTHOR: Sotnikov, V. S.; Kuznetsova, M. I.

ORG: none

TITLE: Adsorption of indium, cobalt and zinc ions from acetone on the surface of graphite, germanium, silicon and quartz

SOURCE: Radiokhimiya, v. 8, no. 6, 1966, 691-692

TOPIC TAGS: adsorption, indium, cobalt, zinc, graphite, quartz, germanium, silicon

ABSTRACT: The adsorption of In, Co and Zn from acetone on graphite, germanium, silicon and quartz surfaces was studied as a function of concentration of the impurities and time of contact with the solution at concentrations of 10^{-4} - 10^{-2} % with the aid of In¹¹⁴, Co⁰⁰ and Zn⁰⁵ isotopes. It is shown that the adsorption of indium on graphite, germanium, silicon and quartz obeys the Freundlich equation up to a concentration of $\sim 10^{-3}$ %, and the adsorption of zinc on Ge and quartz, up to 10^{-2} %. Adsorption saturation for Zn and Co on Ge, Si and SiO₂ takes place in 5-10 min, and for indium in less than 1 min. The lack of adsorption saturation in the case of graphite plates (which were porous) is attributed to diffusion processes. Values of the adsorption obtained were 10^{14} -5 x 10^{15} atoms per cm². Orig. art. has: 2 figures.

SUB CODE: 07/ SUBM DATE: 03Jun66/ ORIG REF: 001

Card 1/1

UDC: 541.183:546.3

DENISERKO. P.A.; MURZIN, L.M.; SOTHIKOV, Ya.I., red.; GUIKOV, A.V., tekhn.red.

[Operations of the hest and electric power plant of the Gorkiy
Antomobile Plant] Iz opyta raboty TETs Gor'kovskog avtomobil'nogo zavoda. Moskva, TaBTI avtomobil'noi promyshl., 1956, 40 p.

(Gorkiy--Steam power plants)

(Gorkiy--Steam power plants)

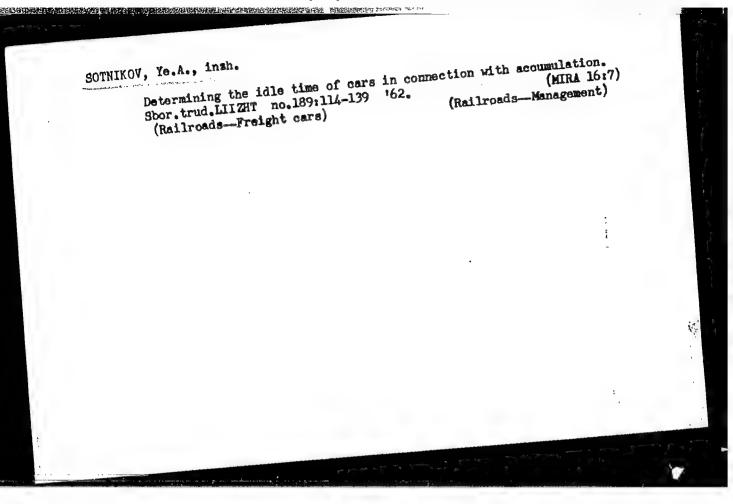
SKRYNNIK, Vladimir Nikitovich; SOTNIKOV, Ya.I., ved. red.; PONUROV, M.P., red.

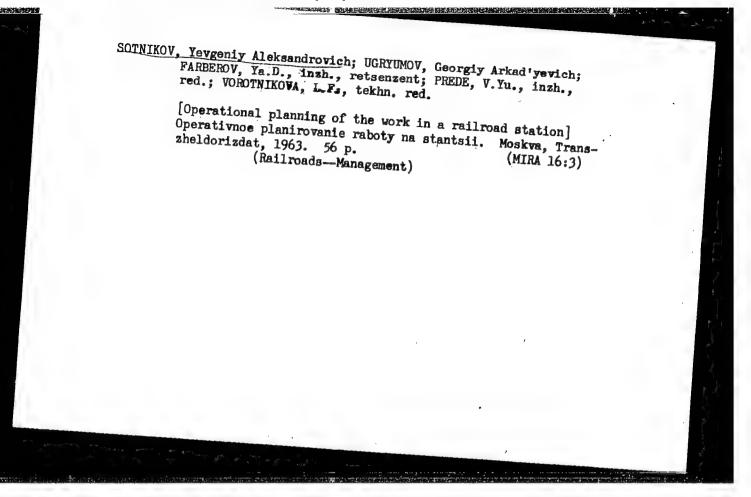
[Design of automatic lines consisting of machine-tool units; survey of foreign engineering] Proektirovanie avtomaticheskikh survey of foreign engineering engin

SOTNIKOV, Ye.A., inzh.

"Economics of classification stations and organization of car flows" by [kand.tekhn.muk] P.S.Sokolov. Reviewed by E.A.Sotnikov. Vest. TSNII MFS 21 no.1:62-64, '62. (MIRA 15:2)

1. Oktyabr'skaya zheleznaya doroga, stantsiya Mga. (Rallroads—Hump yards)





S/0280/64/000/004/0187/0190

ACCESSION NR: AP4044838

AUTHOR: Dolyatovskiy, V. A., Sotnikov, Ye. M.

TITLE: One class of teaching machines

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetkia, no. 4, 1964, 187-190

TOPIC TAGS: teaching machine, learning process, computer programming, teaching

ABSTRACT: The authors discuss the teaching process and examine the general theory of teaching machines. They recommend that the program of a teaching machine should explain the concepts studied from many aspects, point out to the student his mistakes in the process of learning, and provide means for correcting mistakes and for the formation of logical thought. Such requirements are satisfied by a machine whose teaching program is divided into several branches and which also has a controlling and correcting program. The program for machines of this type has a definite structure whose elements are specific concepts, the branching system of the program, and the system for evaluating the answers. Such machines can be constructed quite simply on the basis of a generalpurpose digital computer. A relatively simple machine of this type is briefly described. Card 1/3

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Its block diagram is shown in Fig. 1 of the Enclosure. The machine was built in the form of a table model, and can teach 6 persons a section per hour. A teaching machine of this type can find wide use in colleges for teaching and testing purposes, as well as for investigating various problems in teaching by machines. Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: none

SUBMITTED: 21Nov63

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NO REF SOV: 005

OTHER: 000

Card 2/3

ACCESSION NR: AP4044838

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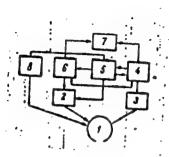


Fig. 1. Block diagram of a teaching machine. 1 - student, 2 - unit giving the teaching program, 3 - device for accepting the answers, 4 - unit for logical analysis and decision, 5 - controlling device, 6 - timing unit, 7 - unit indicating the results, 8 - unit giving the correcting program.

Card 3/3

L 5128-66 EWT(d)/BXT/EWP(1) IJP(c) BB/GG UR/0144/65/000/008/0881/0890 5 681.142+62-50

AUTHOR: Dolyatovskiy, V. A. (Aspirant); Sotnikov, Ye. M. (Assistant)

TITLE: Certain principles of learning and machine teaching

SOURCE: IVUZ. Elektromekhanika, no. 8, 1965, 881-890

TOPIC TAGS: teaching machine, circuit design, cybernetics, learning mechanism

ABSTRACT: The number of students at the institutions of higher learning of the Soviet Union increased in 1963 by 1.4 times as compared with the enrollment in 1957. This puts a great stress on the teaching staff and leads to the need for the rationalization of the teaching process. After outlining the basic principles of the learning process, the present authors describe the teaching program for the students of the Industrial Electronics course (which is the fourth in the Automation and Telemechanics curriculum) which then served as the basis for the construction of the appropriate table model electronic teaching machine. The entire course was divided into eight sections each of which was further subdivided into Card 1/2

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ACCESSION NR: AP	5026302	Andrews in the control departments of the property of the control	
three subsections or design and operation	information units. The article description of the teaching machines. This simple aching process. Orig. art. has: 4	ple teaching machine were	- Y. Co.
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L 5129-66 EWT(d)/BXT/EWP(1) ACCESSION NR: AP5026303 UR/0144/65/000/008/0891/0894 681.142.33 AUTHOR: Dolyatovskiy, V. Aspirant); Sotnikov, Ye. M. (Assistant) TITLE: Electromechanical teaching machine SOURCE: IVUZ. Elektromekhanika, no. 8, 1965, 891-894 TOPIC TAGS: cybernetics, teaching machine, semiconductor device, algorithm ABSTRACT: In recent years, the teaching process has been investigated from the viewpoint of cybernetics. The theoretical foundations of algorithmic formulation of the learning processes were laid down earlier by various authors. The realization of the proposed algorithms was carried out on various machines developed for that purpose. The present article describes one of such machines which was developed and put to use by the authors and was shown at the VDNKh exposition of teaching machines in 1964. The programmed course "Industrial Electronics" was divided into 24 sections. The associated 15 - 20 control questions approached the programmed materials from various angles. The material

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L 4129-66 ACCESSION NR: AP5024689 field and the measured "resonance" field at the surface. The outer magnetic field, of the order of 3000 cersteds, was parallel to the specimen disk planes. Specimens were initially cooled in zero outer field to 4.2K and T>Tc, with subsequent field increase to the point of resonance. Resonance frequencies were of the order of 9200 mc. A substantial discrepancy was found in local fields calculated on the ellipsoid approximation to the disk specimen surface fields, and vs. those measured. Local field strength of the superconductor was found to depend upon magnetization history and thus is apparently generated by internal currents induced in the superconductor by outer field variations. Orig. art has: 2 figures and 1 table. ASSOCIATION: Fiziko-tekhnicheskiy institut im. A.F. loffe Akademii nauk SSSR (Physicotechnical Institute, Academy of Sciences, 888R) SUBMITTED: 01Apr 65 ENCL: 00 BUB CODE! EM NO REF SOVI 004 OTHER: 002 ATD PRESS: Superconducting

SOTNIKOV, Ya.V.

Evaluation through work of students' knowledge, skills, and habits.
Politekh. obuch. no.7:50-51 J1 '59. (MRA 12:9)

1. Srednyaya shkola No.3, g. Vladimir.
(Vladimir—School reports)

SOTNIKOV, Yu.M., inzh.

Use of epoxy resins at the Zhdanov shipyard. Biul. tekh.-ekon. inform. Tekh. upr. Min. mor. flota 7 no.4:78-85 [62. [MTRA 16:4]]

1. Zhdanovskiy sudoremontnyy zavod.
(Zhdanov—Shipyards)
(Epoxy resins)

ACC NR: AP6034918

SOURCE CODE: UR/0419/66/000/003/0107/0108

STANDARD FOR THE STANDARD STAN

AUTHOR: Rubinchik, Ya. S.; Sotnikov-Yuzhik, Yu. M.

ORG: Institute of General and Inorganic Chemistry, AN BSSR (Institut obshchey 1 neorganicheskoy khimii AN BSSR)

TITLE: Study of reactions of rare earth oxides with ferric oxide by means of IR spec-

SOURCE: AN BSSR. Vestsi. Seryya khimichnykh navuk, no. 3, 1966, 107-108

TOPIC TAGS: yttrium compound, ytterbium compound, samarium compound, iron oxide, IR spectrum

ABSTRACT: Yttrium, ytterbium and samarium oxides were reacted with Fe₂O₃ at 810-1200 and the sintered products were analyzed by means of IR spectra in the 400-650 cm-1 range. The spectra of the oxides, perovskites and garnets containing different rare earth ions were very similar, indicating a slight influence of the element on the IR spectrum of the compounds. The character of the spectrum of the products changes with the firing temperature. The spectra obtained confirm earlier findings for the Y203+Fe203 system, viz., that at relatively low temperatures in 3:5 oxides mixtures, the reaction forms a perovskite which, as the temperature is raised further, reacts with excess Fe₂0₃ to form the end product, a garnet. Orig. art. has: 1 figure.

SUB CODE: 07/ SUEM DATE: none/ ORIG REF: 002/ OTH REF: 002

Card 1/1

SOTNIKOVA, A.

Under joint management. Sov.torg. 36 no.12:24-25 D '62.

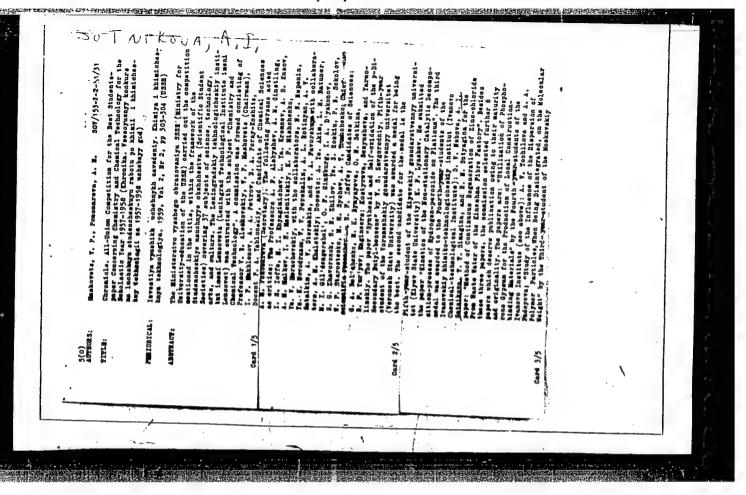
(MIRA 16:1)

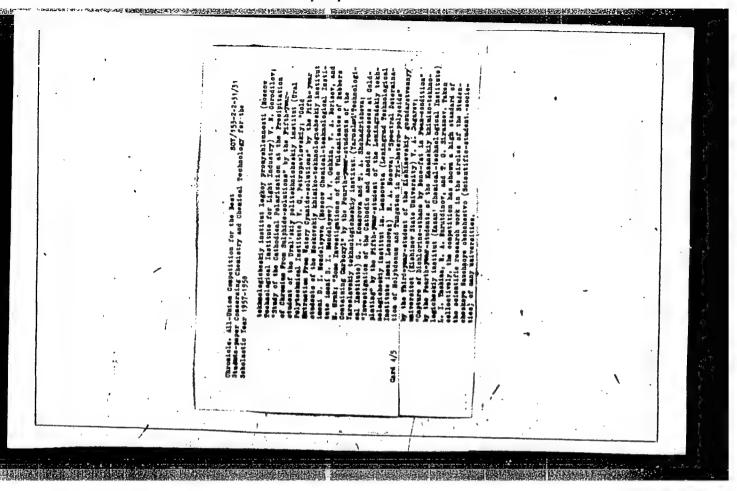
1. Nachal'nik planovogo otdela Voronezhskoy gorodskoy torgovoy organizatsii po torgovle pishcheproduktami.

(Voronezh—Grocery trade)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001652530012-6





SOTNIKOVA, A. H., AKBARVIKOV, I. M., DANDUROV, YU. V., KHVESHCHENKO, E. N.

"A study of the strains of tick encephalitis isolated in the foci of the Primorye region in 1956-1957." p. 54

Desystoye Soveshchaniye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

SOTNIKOVA, A.N.; SOLDATOV, G.M.

Isolation of the tick-borne encephalitis virus from the grosbeak Eophona personata magnirostris Hart. Dokl. Irk. gos. nauch.-issl. protivochum. inst. no.5:28-29 '63 (MIRA 18:1)

Case of isolation of the neurovirus from chiggers. Ibid.:30

SOTNIKOVA, A.N.

Characterístics of tick-borne encephalitis strains isolated in Chuguyevka District of the Maritime Territory. Trudy VladJEMG no.2:24-27 '62. (MIRA 18:3)

1. Iz Primorskoy krayevoy protivochumnoy stantsij.

SOTNIKOVA, A.N.; SOLDATOV, G.M.

Isolation of the virus of tick-borne encephalitis from the flea Ceratophyllus tamias wagn. Med. paraz. i paraz. bol. 33 no.5:622-624 S-0 64. (MIRA 18:4)

1. Primorskaya krayevaya protivochumnaya stantsiya, Ussuriysk.

SOTNIKOVA, A.N.; SOLDATOV, G.M.

Isolation of tick-borne encephalitis virus in jays. Med. paraz. i paraz. bol. 34 no.1:114-115 Ja-F '65.

(MIRA 18:8)

1. Primorskaya krayevaya protivochumnaya stantsiya, Ussuriysk.

EWT(m)/BDS/ES(b)--AFFTC/ASD--RM/K

L 10777-63

ACCESSION NR: AP3003923

s/0205/63/003/004/0504/0507

AUTHOR: Sotnikova, A. P.; Sy*tinskiy, I. A.

36 -5

TITIE: Effect of total-body x-irradiation on the content of gamma amino butyric acid in brain tissue

SOURCE: Radiobiologiya, v. 3, no. 4, 1963, 504-507

TOPIC TAGS: x-irradiation, x-radiation, gamma amino butyric acid, brain tissue, radiation sickness, sodium amobarbital, glutamic acid, sodium amytal, S-2-amino-ethylisothiuronium, cystemines, antiradiation preparation

ABSTRACT: Attempts have been made to correlate the effect of total-body x-irradiation (dosage 1000 r) with the level of gamma amino butyric acid (GABA) in the brain and to estimate the efficacy of survival compounds (e.g., sodium amytal, S-2-aminoethylisothiuronium cystamine) on the organism. The effects of the compounds were investigated by using the GABA as a biochemical index of the processes occurring in the central nervous system during irradiation. An RUM-11 unit (current, 20 mamp; voltage, 180 kv; filters, 0.5-mm Cu and 1.0-mm Al; air dose, 46.7 r; focal length, 30 cm) was employed to deliver a total-body x-irradiation

Card 1/2

L 10777-63 ACCESSION NR: of 1000 r on white rats. No change was detected in the level of GABA and glutamic acid in the brain of the irradiated animals. Application of S-2-aminoethylisothiuronium (40 mg/100 g) evoked spasmodic phenomena with lethal results, attributable to a 22 drop in the GABA level and a 35 drop in the glutamic acid level. The introduction of sodium amobarbital (7 mg/100 g) and cystamine (8 mg/100 g) caused no change in the level of GABA and glutamic acid in the brain of the animals. Orig. art. has: 1 table. ASSOCIATION: Leningradskiy gosudarstvenny*y universitet im. A. A. Zhdanov (Leningrad State University) SUBMITTED: 05Ju162 DATE ACQ: 15Aug63 ENCL: 00 SUB CODE: NO REF SOV: OTHER: 010

VASIL'TSOV, V.D.; VOLCHENKO, M.Ya.; GERTSOVICH, G.B., kand.ekon. nauk; ZHARKOV, Ye.I.; KONOVALOV, Ye.A., kand. ekon. nauk; MATVIYEVSKAYA, E.D.; OLEYNIK, I.P., kand. ekon. nauk; RAYEVSKAYA, E.S.,; SKVORTSOVA, A.I.; SOKOLOVA, N.V.; SOTNIKOVA, I.A.; TANDIT, V.S.; TRIGUBENKO, M.Ye.; FIRSOVA, Yu.V.; SHABUNINA, V.I.; YUMIN, M.N.; STOROZHEV, V.I., kand. istor. nauk, red.; LEPNIKOVA, Ye., red.; SHIRNOV, G., tekhn. red. [Economy of the people's democracies in figures for 1960] Ekonomika stran sotsialisticheskogo lageria v tsifrakh 1960 g. Pod red. G.B.Gertsovicha, I.P.Oleinika, V.I.Storozheva. Moskva, Izdvo sotsial'no-ekon. lit-ry, 1961. 238 p. (MIRA 15:4)

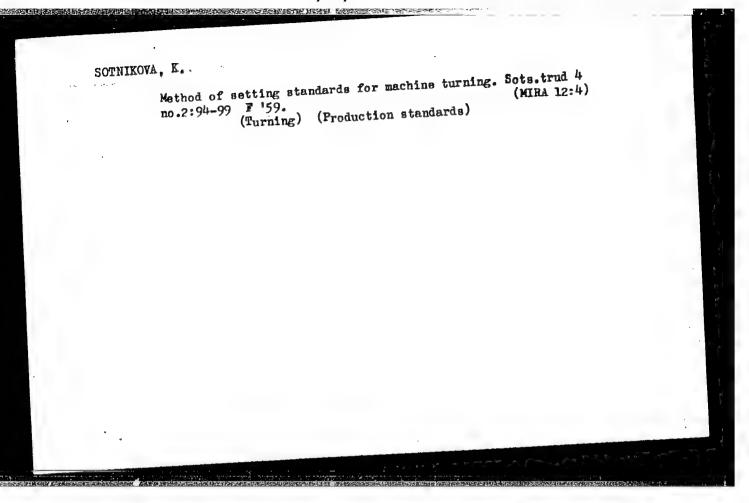
(Communist countries-Economic conditions)

VASIL'TSOV, V.D.; VOLODARSKIY, L.M.; VOLCHENKO, M.Ya.; GALETSKAYA, R.A.; IROV, N.I.; KARINYA, L.F.; KONOVALOV, Ye.A.; MATVIYEVSKAYA, E.D.; PETRESKU, M.I.; RUDAKOV, Ye.V.; SAYFULINA, L.M.; SKVORTSOVA, A.M.; SOKOLOVA, N.M.; SOTNIKOVA, I.A.; STOLPOV, N.D.; SURKO , Yu.V.; TEN, V.A.; TRIGUHENKO, M.Yo.; FIRSOVA, Yu.V.; SHABUNINA, V.I.; YUMIN, M.N.; RYABUSHKIN, T.V., doktor ekon. nauk, otv. red.; ALAMPIYEV, P.M., red.; PAK, G.V., red.; GERASIMOVA, D., tekhm.red.

在新疆域,是是是大学的主义的,他们就不是一个不是一个不是一个人,但是他们就是一个人,他们也不是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们就是一个人

[Ecoromy of socialist countries, 1960-1962] Ekonomika stran sotsializma, 1960-1962gg. Moskva, Izd-vo "Ekonomika," 1964. (MIRA 16:12) 261 p.

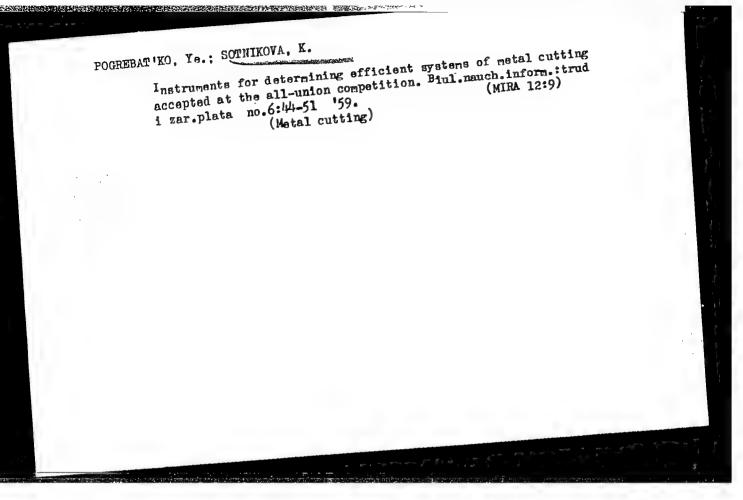
1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy. (Communist countries -- Economic conditions)



GRANOVSKIY, Ye.; SOTNIKOVA. K.

New book on technical standardization (Technical standardization at a machinery memifacturing plant by M. Shadmazarova). Sots. trud.
4 no.10:155-158 0 '59 (MIRA 13:3)

(Machinery industry--Production standards)



SOTNIKOVA, K.A., kend. med. nauk; KRASIKOVA, V.A., kend.med. nauk Indices of arterial pressure in healthy children during the first three years of life. Vop okhr. materin. dets. 8 no.1: (MIRA 17:2) 1. Iz kliniki rannego vozrasta (zav. - prof. N.R.Shastin) 1. 1Z Kliniki rannego vozrasta (zav. - proi. N. n. sizastii)
Nauchno-issledovatel'skogo pediatricheskogo instituta (dir. kand. med. nauk V.P.Spirina) Ministerstva zdravookhraneniya RSFSR.

SHASKOL'SKIY, B.V., kand. tekhn. nauk; SOTNIKOVA, K.F., inzh.;
GAVRILIN, Ye.F.; LUBKOV, A.N.; SAPOZHNIKOV, V.M.; ZHUCHENKO,
L.F.; CHIGIRINA, N.I., tekhnik; ZHARIKOV, I.P., inzh.;
CHERTISHCHEVA, A.Ye.; SHAPOVALOV, V.K., tekhnik; MOROZOV, A.M.,
inzh.; SLIVKO, S.V., tekhnik; CHERNAVSKIY, G.N., kand. tekhn.
nauk; STRUZHESTRAKH, Ye.I., inzh., ed.; EL'KIND, V.D., tekhn.
red.; DEMKINA, N.F., tekhn. red.

[General norms for time and machining conditions used in the industry for machining on automatic lathes; mass, large-lot and lot production Obshchemashinostroitel mye normativy vremeni i rezhimov rezaniia na tokarno-avtomatnye raboty; massovoe, krupnoseriinoe i seriinoe proizvodstvo. Moskva, Mashgiz, 1962. (MIRA 15:12)

1. Moscow. TSentral noye byuro promyshlennykh normativov po trudu. (Turning--Production standards)

95 g 3 . EWP(e)/EWT(m)/EWP(t)/ETI/EWP(k) JD/JG/AT/WH IJP(c) 38308-66 'SOURCE CODE: UR/0122/66/000/004/0064/0069 ACC NR AP6012745 AUTHORS: Romanov, K. F. (Candidate of technical sciences); Sotnikova, K. F. (Enginear) 46 ORG: none B TITLE: The effect of the technological conditions of processing on the rate of cutting during the turning of parts made from heat-resistant and titanium materials SOURCE: Vestnik mashinostroyeniya, no. 4, 1966, 64-69 TOPIC TAGS: heat resistant material, heat resistant steel, titanium containing alloy, metalworking, metalworking machinery ABSTRACT: Corrective coefficients are applied to the normal cutting rate for the turning of machine parts made from heat-resistant materials. These coefficients take into account the effect of the technological working conditions; they are developed on the basis of studies performed both in laboratories and in industry. Note is made of some discrepancies between the cutting rates predicted from laboratory tests and those recorded in actual industrial conditions. Turnings of various machine parts and various types of cuttings are compared with respect to feed rate. Several parameters were treated as variables, including the thermal processing of the material, the geometric dimensions of the material, the grade and type of material, and the mechanical properties of the material. Note is also made of the UDC: 621.9.014.5:669.14.018.44 Card

RUDNEVA, L.N., inzh.; SOTNIKOVA, K.V., inzh.

Manufacturing targe asbestos cement sheets on automated equipment. Stroi. mat. 11 no.5:13-14 My '65. (MIRA 18:9)

SOTNIKOVA, L.G., ordinator

Blood proteins in normal and pathological pregnancy as shown by paper electrophoresis data. Kaz.med.zhur. 40 no.6:79-81 N-D *59.

(MIRA 13:5)

1. Iz kafedry akusherstva i ginekologii No.2 (zav. - prof. Kh.Kh. Meshcherov) Kazanskogo meditsinskogo instituta.
(BLOOD PROTEINS) (PREGNANCY) (PAPER ELECTROPHORESIS)

DUNAYEVA, V.G.; SOTNEKOVA, L.G.; YAKUBOVA, Z.H.

Immediate and late results of treating a threatening abortion.
Nauch. trudy Kaz. gos. med. inst. 14:421-423 '64. (MIRA 18:9)

1. II kafedra akusherstva i ginekologii (zav. - prof. Kh.Kh. Meshcherov) Kazanskogo meditsinskogo instituta.

SOTNIKOVA, L. I.

USSR/Physics - Energy levels

Card 1/1 Pub. 22 - 24/54

Authors : Krasnikov, A. I.; Sotnikova, L. I., and Orlov, L. G.

Title : Transition of the deep energetic levels of ferrous atoms during cold metal deformations

meral delormations

Periodical: Dok. AN SSSR 102/5, 943 - 945, June 11, 1955

Abstract: A study of the displacement of the deep energy levels, Lik Liii of ferrous atoms is described. Effect of cold deformations on the displacement of deep energy levels of ferrous atoms is discussed. Three USSR references

(1939-1946). Table.

Institute : The Institute of Metallography and the Physics of Metals of the

Scientific Research Institute of Ferrous Metallurgy

Presented by: Academician G. V. Kurdyumov, February 23, 1955

LAYNER, D.I., MALYSHEVA, L.A., SOTNIKOVA, L.I.

Silicon-copper catalyzers and prospects for a considerable economy of copper. TSret. met. 33 no.8:70-72 Ag '60.

(MIRA 13:8)

(Silicon-copper alloys) (Catalysts)

\$/680/61/000/020/00 /013 D204/D302

AUTHORS: Layner, D. I., Malysheva, L. A. and Sotnikova, L. 1.

TITLE : Poisons of the Cu-Si alloy catalysts

SOURCE: Moscow, Gosudarstvennyy nauchno issledovateľskiy i

proyektnyy institut obrabotki tsvetnykh metallov. Sbornik nauchnykh trudov. no. 20, 1961, Metallovedeniye i obrabotka tsvetnykh metallov i splavov, 14-36

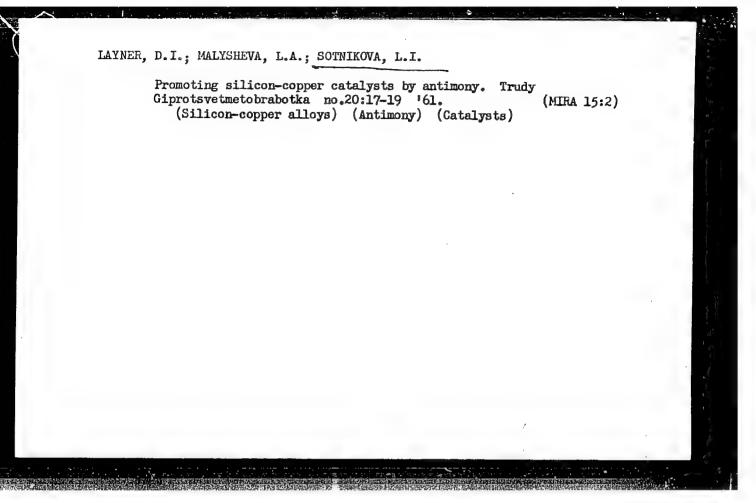
inhibiting effect of small addi-TEXT: The authors studied t! tions of Pb. Sn and Bi on the stalytic activity of 10% Cu. 90% Si alleys, by measuring the productivity (in g product/kg catalyst/hr) and the percentage yield of Me_SiCl_ in the synthesis of

methyl chlorosilanes. The alloys were prepared, in carbon boats, from Kp1 (Kr1) silicon, MO (MO) copper, CB (SV) lead, O1 (O1) tin and pure bismuth (according to TYMX/13153-54) (TUMKhP 3!53-54). checking the composition by chemical analysis. It was found that Pb. Bi and Sn poisoned the catalyst when in quantities > 0.003,

Card 1/2

S/680/61/000/020/00'/013 D204/D302

C.OCS and >0.05% respectively. S. A. Golubtsov, I. V. Trofinova and N. P. Ichusevich aided the authors in the chemical part of the work. There are 2 tables and 3 Soviet-bloc references.



TURETSKAYA, R.A.; GOLUBTSOV, S.A.; TROFIMOVA, I.V.; ANDRIANOV, K.A.; Prinimali uchastiye: LAYNER, D.I.; SOTNIKOVA, L.I.; MALYSHEVA, L.A.

Effect of the admixture of some metals on the activity of silicon-copper alloys in the reaction with theyl chloride.

Zhur.prikl.khim. 35 no.7:1496-1502 Jl '62. (MIRA 15:8)

1. Gosudarstvennyy nauchno-issledovatel skiy i proyektnyy institut obrabotki tsvetnykh metallov (for Layner, Sotnikova, Malysheva).

(Silicon-copper alloys) (Ethane) (Metals)

MYULLER, N. N.; SOTNIKOVA, L. I.

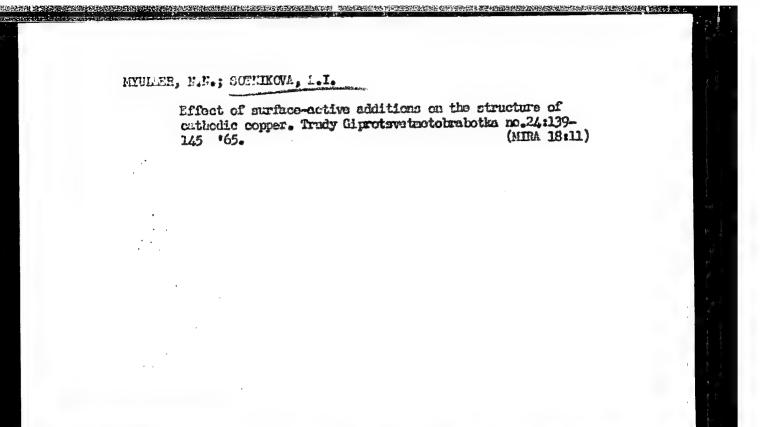
Studying certain properties of copper cathodes deposited in presence of various surface active additives. TSvet. met. 35 no.10:29-33 0 62. (MIRA 15:10)

(Copper-Electrometallurgy)

MYULLER, N.N.; SOTNIKOVA, L.I.

Effect of additions of surface-active substances on the structure of cathodic copper. TSvet. met. 36 no.1121-22 Ja '63. (MIRA 16:5)

(Copper-Electrometallurgy) (Surface-active agents)



SOTNIKOVA, L.L., dots.; SEMENENKO, L.A., sudebnomeditsinskiy ekspert (Khar'kov).

How did you dare? Zdorov'e 6 no.4:24 Ap '60. (MIRA 13:8)
(ABORTION)

SOTNIKOVA, L.L., kand.med.nauk; TUNINA, E.L., kand.med.rauk (Khar'kov)

Significance of medical documentation in medicolegal expertise on living persons. Vrach. delo no.11:117-119 N '61. (MIRA 14:11) (MEDICAL JURISPRUDENCE)

MESHCHEROV, Kh.Kh.; SOTNIKOVA, L.G.

Electrophoretic study of the blood serum in normal pregnancy and late toxicosis. Nauch. trudy Kaz. gos. med. inst. 14:485-486 464. (MIKA 18:9)

1. II kafedra akusherstva i ginekologii (zav. - prof. Kh.Kh. Meshcherov) Kazanskogo meditsinskogo instituta.

SOTNIKOVA, L.G.

Comparative data on the study of glycoproteins and sialic

acid of the blood serum in normal pregnancy and in late toxicosis.

Nauch. trudy Kaz. gos. med. inst. 14:549-550 64. (MIRA 18:9)

1. II kafedra akusherstva i ginekologii (zav. - prof. Kh.Kh. Meshcherov) Kazanskogo meditsinskogo instituta.

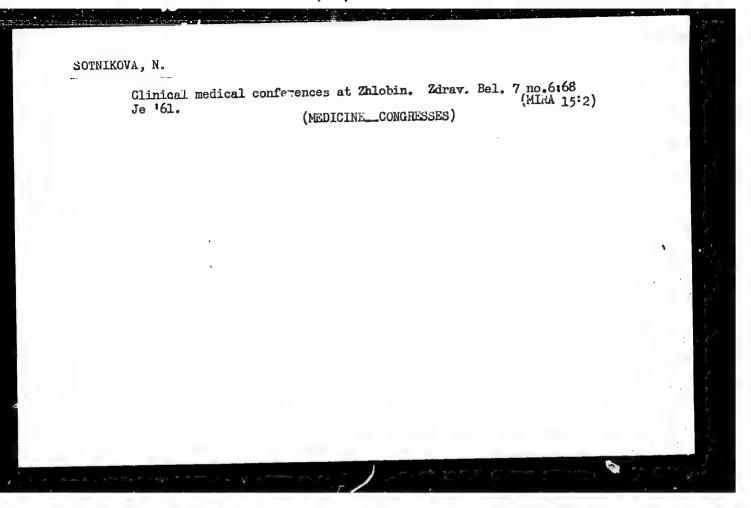
MARTYNOV, M.S.; FOTAPOV, V.P., inzh., retsenzent; SOTNIKOVA, M.A., inzh., retsenzent; SHISHLYKOV, Ye.S., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Transportation of perishable goods] Perevozki skoroportia-shchikhsia gruzov. Moskva, Transzheldorizdat, 1963. 331 p.

(Railroads--Freight) (Refrigerator cars)

- 1. SOTNIKOVA, M.P.
- 2. USSR (600)
- 4. Georgiev, Emil
- 7. "Slavic alphabet before Cyril and Methodius." Reviewed by M.P. Sotnikova, Vop.ist. no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

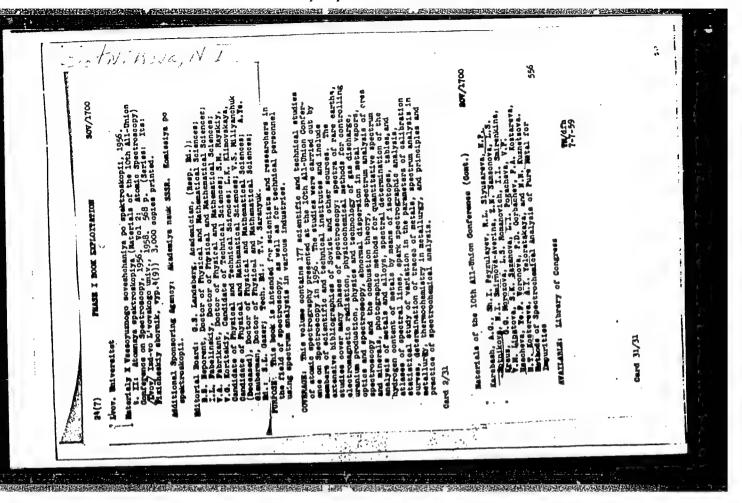


SHMALIY, K.V.; NAKHMANSON, G.L.; MEL'HIKOV, Ye.L. (Khar'kov); BORINA, M.Ya. (Kiyev); SOTNIKOVA, N.A.; BORSHCHEVSKIY, M.A. (Odersa)

Primary drug resistance in pulmonary tuberculosis. Vrach. delo no.1:

98-100 Ja '62.

(TUBERCULOSIS) (BACTERIA, EFFECT OF DRUGS ON)



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VALITOVA, F.G.; IL'YASOV, A.V.; SOTNIKOVA, N.N.; BAYGIL'DINA, S.Yu.

Electron paramagnetic resonance study of electrochemically generated radicals of some hydrazines. Zhur.strukt.khim. 6 no.5:777-779 S-0 '65. (MIRA 18:12)

l. Institut organicheskoy i fizicheskoy khimii AN SSSR, Kazan'.

L 31461-66 EWT(m)/EWP(j)/ ACC NR: AP6023114	/T WW/_WW/_NWD/RM SOURCE CODE: UR/0379/66/002/001/0142/0143
AUTHOR: Il'yasov, A. V.; L	evin, Ya. A.; Sotnikova, N. N.; Valitova, F. G. 85.
ORG: Institute of Organic organicheskoy i fizicheskoy	and Physical Chemistry, AN SSSR, Kazan' (Institut
	eration of hydrazyl radicals
SOURCE: Teoreticheskaya i	eksperimental naya khimiya, v. 2, no. 1, 1966, 142-143
TOPIC TAGS: electrochemist	ry, free radical, hydrazine derivative, electrolytic cell,
electron spectrum, electron resonator	paramagnetic resonance, redex reaction, resonator/RE-1301
resonator ABSTRACT: It is known that \$\begin{align*} ABSTRACT: The image DPPH APPRIOR APPRIOR DPPH APPRIOR APPRIOR	organic free radicals of the type a, a diphenyl-
ABSTRACT: It is known that β_picrylhydrazyl (DPPH) ar with lead dioxide or other bility of obtaining these relations platic	c organic free radicals of the type &, & _diphenyle obtained by treating the corresponding hydrazines oxidizing agents. The authors studied the possiedicals by electrochemical oxidation. An electronum electrodes, as described previously, was
resonator ABSTRACT: It is known that β -picrylhydrazyl (DPPH) ar with lead dioxide or other bility of obtaining these rlytic cell containing platiplaced directly into the RE were made in acetonitrile,	corganic free radicals of the type &, & _diphenyl
ABSTRACT: It is known that β -picrylhydrazyl (DPPH) ar with lead dioxide or other bility of obtaining these r lytic cell containing platiplaced directly into the RE were made in acetonitrile, alcoholic solutions with a lotromethyl-ammonium iodide	corganic free radicals of the type &, & _diphenyl

L 31461-66 ACC NR: AP6023114

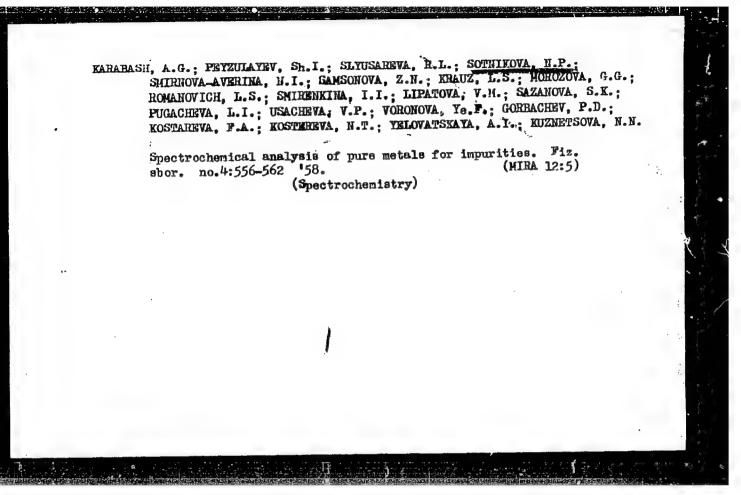
solutions were degassed by the freezing method. The formation of hydrazyls in electrochemical oxidation of the original compounds can be depicted by the scheme:

$$Ph_2N-NH-R + OH^- \rightleftharpoons Ph_2N - \bar{N} - R + H_2O$$
.
 $Ph_2N - \bar{N} - R \rightleftharpoons Ph_2N - \dot{N} - R + e$.

Thus, the authors have shown that electrochemical oxidation as well as electrochemical reduction of compounds of the diphenylpicrylhydrazine type lead to the formation of free radicals, the properties and structure of which can be studied by the electron paramagnetic resonance method. [JPR5]

SUB CODE: 07 / SUBM DATE: 21Jun65 / ORIG REF: 006 / OTH REF: 004

Card 2/2 mc



KARABASH, A.G.; PEYZULAYEV, Sh.I.; SOTHIKOVA, N.P.; SAZANOVA, S.K.

Determination of impurities in titanium and titanium dioxide. Trudy

Kom. anal. khim. 12:108-116 '60. (MIRA 13:8)

(Titanium—Analysis)

SOTNIKOVA, N.P.; HOMANOVICH, L.S.; PEYZULAYEV, Sh.I.; KARABASH, A.G.

Determination of impurities in zirconium. Trudy Kom. anal. khim. 12: 151-159 '60. (Xirconium-Analysis)

SCINIKOVA, N.S.

Use of the gelatin method for determining SiO2 in ash elements of plants. Forhvovedenie no.9:109-110 S 154. (MIRA 17:12)

1. TSentral'nyy muzey pochvovedeniya imeni V.V. Dokuchayeva.

KAZARNOVSKIY, L.S.; LOKHVITSKAYA, M.F.; LYSENKO. L.V.; PIVMENKO, G.P.; SERGETENKO, T.A.; SILA, V.I.; SOTNIKOVA, O.M.; CHUYKO, O.V.

Comparison of methods for preparing and analysing infusions [with summary in English]. Apt.delo 8 no.1:64-71 Ja-F '59. (MIRA 12:2)

1. Is Khar'kovskogo farmatsevticheskogo instituta (dir. - dots. Tu.G. Borisyuk) Ministerstva zdravokhraneniya USSR. (EXTRACTS)

PIVNENKO, G.P. [Pivnenko, H.P.]; CHAGOVETS, R.K. [Ghahovets', R.K.]; PERTSEV, I.M.; SOTNIKOVA, O.M.

Presence of water-insoluble tannins in the roots of the spurge Euphorbia palustris. Farmatsev. zhur. 16 no.1:32-35 '61. (MIRA 17:8)

1. Khar'kovskiy farmatsevticheskiy institut.

PIVNENKO, G.F. [Pivnenke, H.P.]; SOTNIKOVA, O.M. [Sotnykova, O.M.]

Production of extracts from alkaloid-containing vegetable medicinal raw material under the effect of ultrasound. Farmatsev.zhur. 20 no.1:39-42 165. (MTRA 18:10)

1. Kafedra tekhnologii lekarstv i galenovykh preparatov Khar'kovskogo farmatsevticheskogo instituta.

PIVNENKO, G.P. [Pivnenko, H.P.]; SOTNIKOVA, O.M.; KHARCHENKO, N.S. [Kharchenko, M.S.]; KUTSEVICH, V.A.; MALAYA, L.T. [Mala, L.T.]; SAFRONOVA, V.I.

Antisclerotic preparation based on one of vegetable oils. Farmatsev.zhur. 20 no.6:10-12 65.

(MIRA 19:1)

1. Kafedra tekhnologii lekarstv Khar'kovskogo farmatsevticheskogo instituta; kafedra farmakologii i kafedra gospital'noy terapii Khar'kovskogo meditsinskogo instituta. Submitted December 21, 1964.

JUTNIKULA OV

KUL'SKIY, L.A. [Kul's'kyi, L.A.], doktor tekhn.nauk, otv.red.; KALYUZHNYY, D.M., [Kaliuzhnyi, D.M.], doktor med.nauk, red.; KVITNITSKAYA, N.M. [Kvitnytè'ka, N.M.], kand.med.nauk, red.; KOGANOVSKIY, O.M. [Kohanovs'kyi, O.M.], kand.khim.nauk, red.; SOTNIKOVA, O.V. [Sotnykova, O.V.], kand.med.nauk, red.; SHKURKO, V.L., red.; YÜRCHISHIN, V.I. [IUrchyshin, V.I.] tekhn.red.

[Sanitary protection of water supplies and industrial sewage purification]
Sanitarna okhorona vodoimyshch i ochystka promyslovykh stichnykh vod.
Kyiv, Vyd-vo Akad.nauk URSR, 1959. 162 p. (MIRA 12:7)

1. Akademiya nauk USSR, Kiyev. Rada po vyvchenniu produktyvnukh syl URSR. (Sewage--Purification) (Water supply--Hygionic aspects)

SOTNIKOVA, O.V. [Sotnykova, O.V.]

Congress on problems in the protection of natural waters and improving the quality of water. Dop.AN URSR no.9:1300-1302 160.

(Water supply engineering--Congresses)

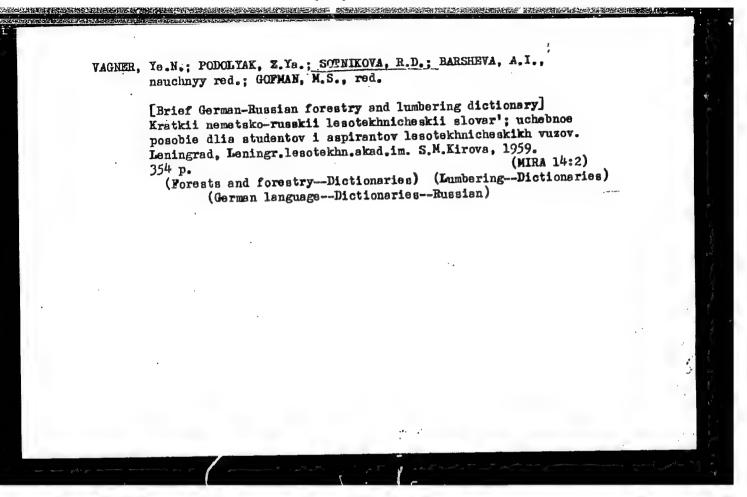
SOTNIKOVA, R.

Sections are our support. NTO no.1:30-32 Ja '59.

(MIRA 12:2)

1. Predsedatel' soveta pervichnoy organizatsii Nauchno-tekhnicheskogo obshchestva legkoy promyshlennosti kombinata "Zasulauka manufaktura."

(Latvia--Textile research)



SLONOV, M.N., zooparazitolog; Prinimali uchastiye: BELIKOVA, N.P., parazitolog po iksodovym kleshcham; TATARINOVA, L.G., virusolog; KARABANOVA, E.M., laborant; SOTNIKOVA, T.I., laborant

Zooparasitic characteristics of a natural focus of tick-borne encephalitis in the central part of the Maritime Territory.

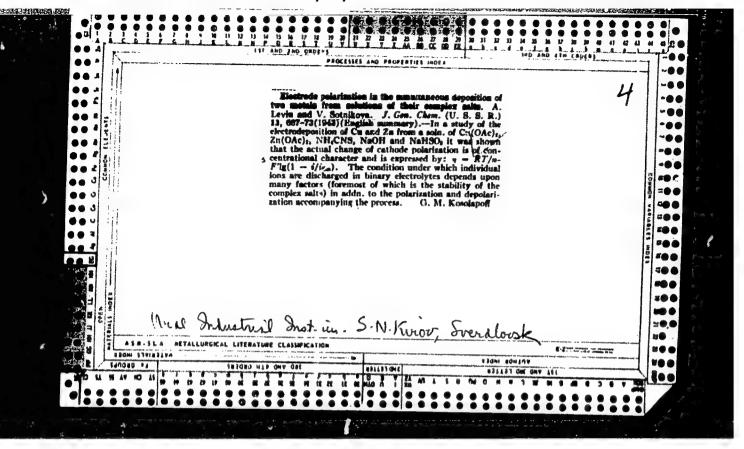
Trudy VladIEMG no.2:27-32 '62. (MIRA 18:3)

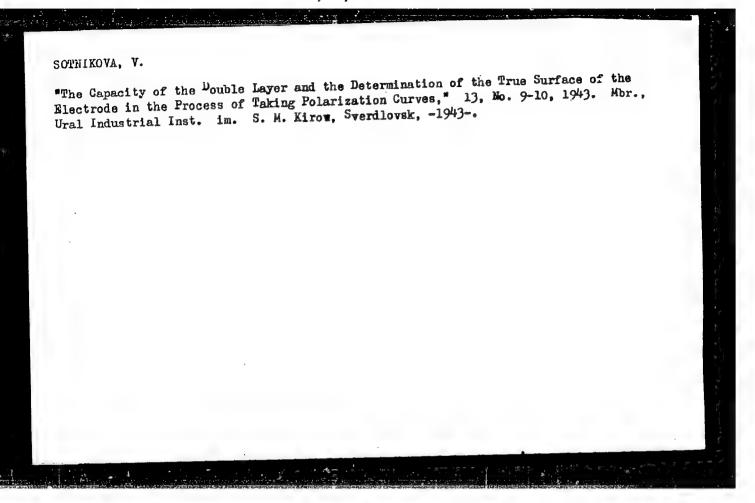
1. Iz Vladivostokskogo nauchno-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigiyeny.

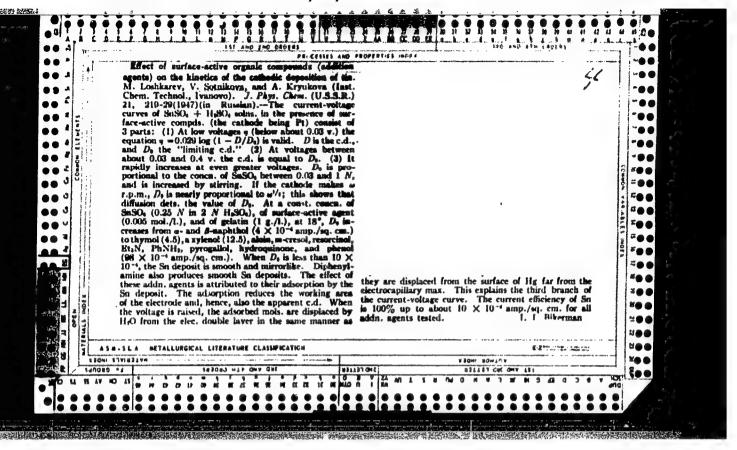
SOTNIKOVA, V .: LOSHKAREV, M .: YESIN, O.

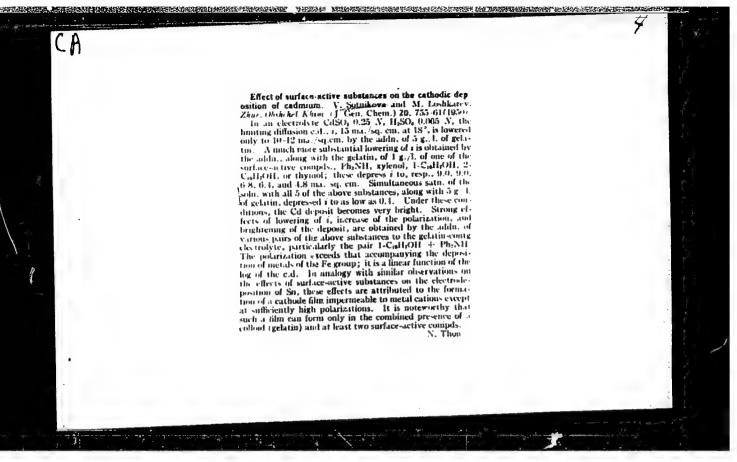
"The Polarization during the Deposition of Tin from Acid Solutions of its simple Salts". Zhur. Obshch. Khim., 9, No.5, 1939. Laboratory of Theoretical Electrochemistry, Ural'sk Industrial Institute imeni s.m. Kirov, Sverdlovsk. rcd. 27 Jan 1939.

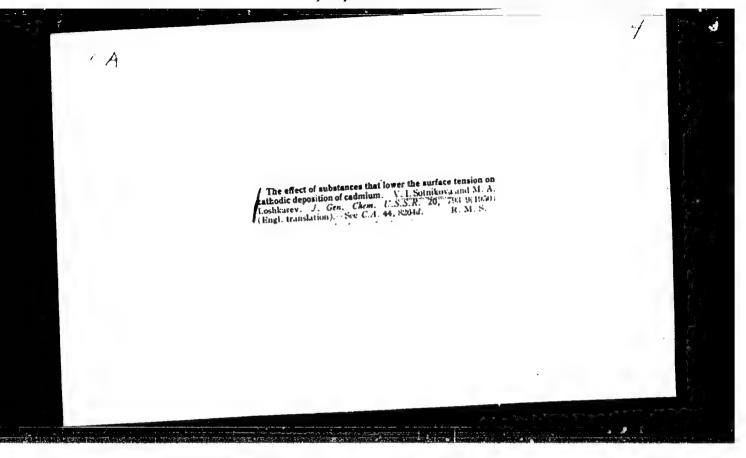
Report U-161h, 3 Jan 1952.



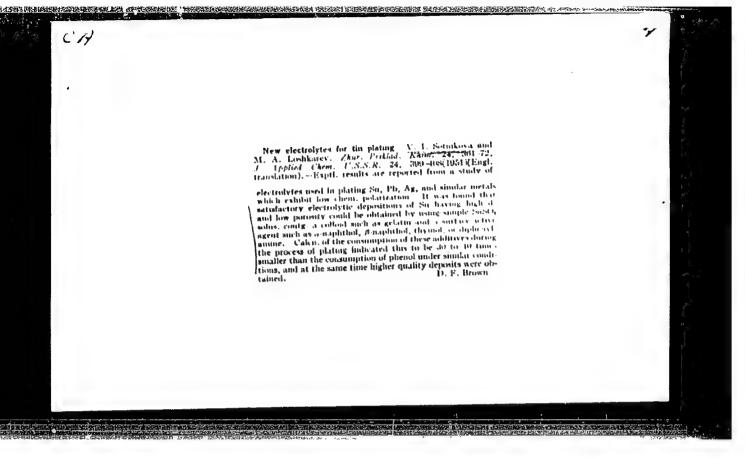








SOTNIKOVA, V. I.	USSR/Chemistry - Electrolysis (Contd) Apr 51 of deposits. Calcd consumption of additives. With higher quality of plating as compared to that obtained from phenol baths, consumption of additives is 30-50 times less than that of phenol under same conditions.	Examd dispersion capacity of Stannic sulfate electrolytes with addn of colloid and of α - and β -naphthol, thymol, and diphenylamine. Detd porosity of deposits under same conditions. In accord with previously established presence of great chem polarization in electrolytic deposition of tin from solns with above additives, found dispersion capacity and fine cryst structure of deposits and low porosity	USSR/Chemistry - Electrolysis Apr 51 "New Electrolytes for Tinplating," V. I. Sotnikova, M. A. Loshkarev "Zhur Prik Khim" Vol XXIV, No 4, p 361
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S/073/60/026/004/013/018/XX Effect of H₂O₂ Upon the Potential of the B023/B064 Oxygen Electrode on the Oxidized Surface of Steel in Alkalire Solution 10-15% H₂O₂ are decomposed within the first 2 hours. During 24 hours, H₂O₂ was almost completely decomposed. Contact with the electrode and increasing pH accelerate the decomposition. The experimentally confirmed dependence of the electrode potential of the passivated oxide steel in the solution saturated with air on the ${\rm H_2O_2}$ concentration was expressed by the following equation: $\psi = \text{const} - A \log C_{\text{H}_2\text{O}_2}$. Fig. 2 shows that the A values for experiments at which 🌵 was measured as a function of the increasing H202 concentration, were smaller than in experiments in which H202 decomposed. This may be explained by the fact that at repeated exactly dosed introduction of H202, the electrode continues oxidizing, and the potential of each point is shifted toward positive values. This shift is the stronger, the higher the H_2O_2 concentration is, which may be seen from Fig. 4: At certain H202 concentrations, the curve passes through a minimum and the sign of $\Delta arphi$ is reversed. The collaborators A. N. Burmistrova and Ye. N. Chankova obtained for the oxidized steel electrode in 1.86 N NaOH solution Card 2/3

AFANAS'YEV, A.S.; BURMISTROVA, A.N.; SOTNIKOVA, V.I.; CHANKOVA, Ye.N.

Effect of hydrogen peroxide on the potential of an oxygen electrode on oxidized steel in alkaline solution. Fart 2: Passivation of an electrode surface and cyclic polarization. Ukr.khim.zkur. 27 no.5:624-628 161. (MIRA 14:9)

1. Dnepropetrovskiy metallurgicheskiy institut, kafedra fizicheskoy khimii.

(0xygen) (Polarization (Electricity))

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Effect of hydrogen peroxide on the potential of the oxygen electrode. Part 3: Kinetic mechanism of the electrode process. Ukr.khim.zhur. 28 no.4:492-495 *62. (MIRA 15:8)

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(Hydrogen peroxide) (Electromotive force)

AFANAS'YEV, A.S.; SOTNIKOVA, V.I.; PASHUTA, Yu.S.

Thiourea as an inhibitor of the acid corrosion of steel. Ukr.khim. zhur. 29 no.12:1317-1321 '63. (MIRA 17:2)

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